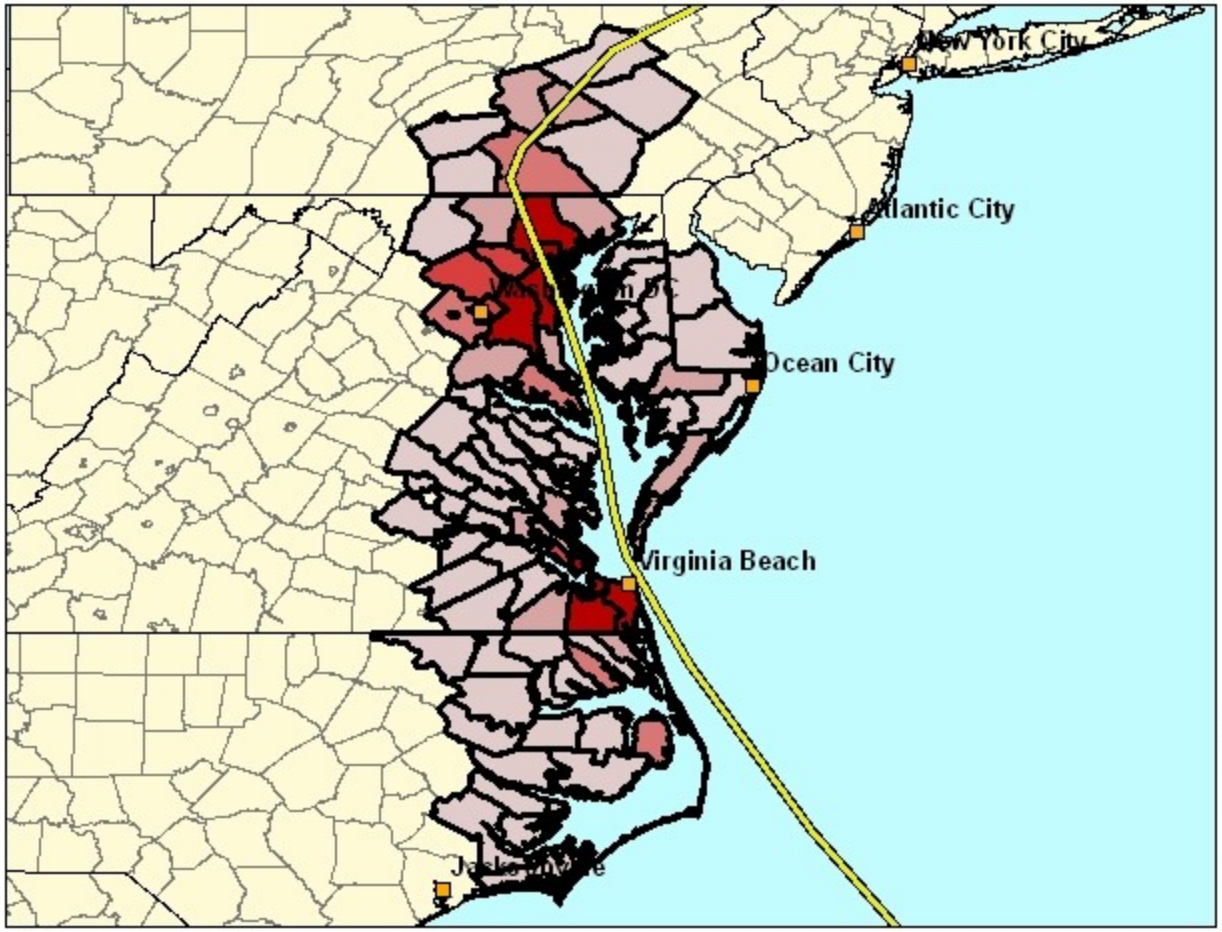
US Army Corps of Engineers

Hurricane Md#1 Debris Model

Landfall Plus About 12 Hours

For Official Use Only!



Post Landfall Debris Model Results

VA - 14,692,000 Yards
MD - 9,501,000 Yards
NC - 1,236,000 Yards
PA - 847,000 Yards
DC - 727,000 Yards
DE - 63,000 Yards

Model results per County on following page

This model is based on a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay. These projections are based on information from the NHC (0900 EDT 09/17/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Debris Model	
Generated By: Siemsen, LRL 0930 EDT 09/17/2007	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 18

US Army Corps of Engineers

Hurricane Md#1 Debris Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Yards per State	County	Yards per County
Delaware		Kent	< 1,000
		Sussex	63,000
Delaware	63,000		
District of Columbia		Washington	727,000
District of Columbia	727,000		
Maryland		Anne Arundel	1,421,000
		Baltimore	1,640,000
		Baltimore City	1,782,000
		Calvert	216,000
		Caroline	25,000
		Carroll	170,000
		Charles	200,000
		Dorchester	83,000
		Frederick	3,000
		Harford	211,000
		Howard	692,000
		Kent	12,000
		Montgomery	810,000
		Prince Georges	1,601,000
		Queen Annes	60,000
		Somerset	61,000
		St Marys	256,000
		Talbot	69,000
		Wicomico	121,000
		Worcester	68,000
Maryland	9,501,000		
North Carolina		Beaufort	38,000
		Bertie	32,000

State	Yards per State	County	Yards per County
North Carolina		Camden	78,000
(continued)		Carteret	28,000
		Chowan	35,000
		Craven	5,000
		Currituck	208,000
		Dare	326,000
		Gates	32,000
		Hertford	36,000
		Hyde	35,000
		Martin	16,000
		Northampton	3,000
		Pamlico	14,000
		Pasquotank	257,000
		Perquimans	35,000
		Tyrrell	27,000
		Washington	31,000
North Carolina	1,236,000		
Pennsylvania		Adams	36,000
		Berks	< 1,000
		Cumberland	12,000
		Dauphin	175,000
		Lancaster	79,000
		Lebanon	104,000
		Schuylkil	3,000
		York	438,000
Pennsylvania	847,000		
Virginia		Accomack	223,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Md#1 Debris Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Debris Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Yards per State	County	Yards per County
Virginia		Alexandria	247,000
(continued)		Arlington	328,000
		Caroline	5,000
		Charles City	12,000
		Chesapeake	1,756,000
		Chesterfield	6,000
		Essex	27,000
		Fairfax	269,000
		Falls Church	< 1,000
		Franklin City	12,000
		Gloucester	124,000
		Hampton City	1,263,000
		Hanover	37,000
		Henrico	52,000
		Hopewell City	35,000
		Isle Of Wight	78,000
		James City	159,000
		King And Queen	20,000
		King George	16,000
		King William	27,000
		Lancaster	85,000
		Mathews	93,000
		Middlesex	62,000
		New Kent	27,000
		Newport News	704,000
		Norfolk City	2,181,000
		Northampton	116,000
		Northumberland	99,000
		Petersburg	3,000
		Poquoson City	99,000
		Portsmouth	996,000

State	Yards per State	County	Yards per County
Virginia		Prince George	31,000
(continued)		Richmond	21,000
		Southampton	24,000
		Suffolk City	207,000
		Surry	19,000
		Sussex	13,000
		Virginia Beach	4,929,000
		Westmoreland	37,000
		Williamsburg	27,000
		York	223,000
Virginia	14,692,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Md#1 Debris Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

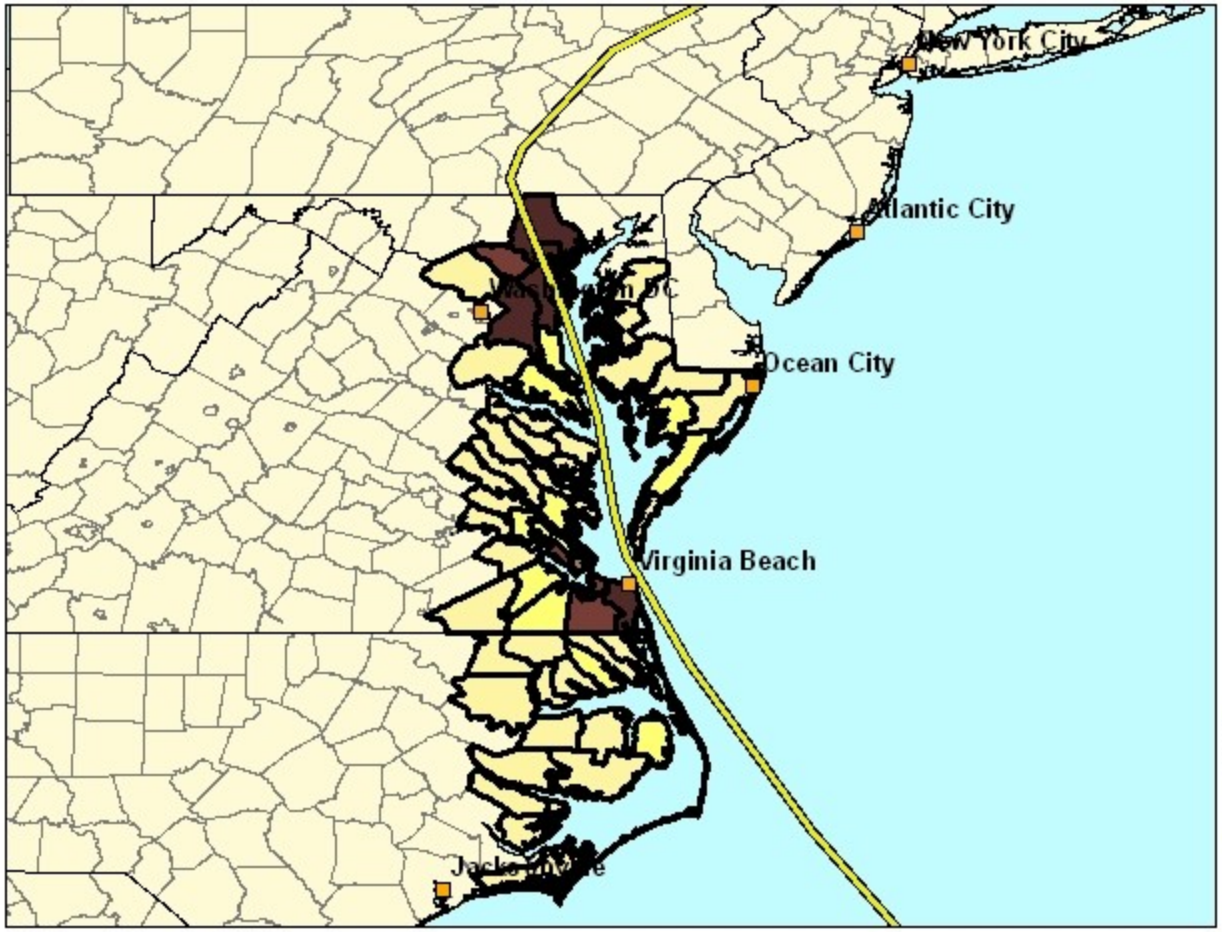
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Population Model

Landfall Plus About **12** Hours

For Official Use Only!



Post Landfall Population Model Results

Maryland - 2,354,000
Virginia - 1,760,000
North Carolina - 167,000

Model results per County on following page

This model is based on a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay. These projections are based on information from the NHC (0900 EDT 09/17/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Population Model	
Generated By: Siemsen, LRL 0930 EDT 09/17/2007	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 18

US Army Corps of Engineers

Hurricane Md#1 Population Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Population per State	County	Population per County
Maryland		Anne Arundel	511,000
		Baltimore	357,000
		Baltimore City	578,000
		Calvert	89,000
		Charles	20,000
		Dorchester	22,000
		Howard	225,000
		Montgomery	2,000
		Prince Georges	375,000
		Queen Annes	19,000
		Somerset	26,000
		St Marys	99,000
		Talbot	13,000
		Wicomico	7,000
		Worcester	11,000
Maryland	2,354,000		
North Carolina		Beaufort	< 1,000
		Bertie	< 1,000
		Camden	10,000
		Carteret	2,000
		Chowan	15,000
		Currituck	24,000
		Dare	34,000
		Gates	10,000
		Hertford	2,000
		Hyde	6,000
		Pamlico	< 1,000
		Pasquotank	40,000
		Perquimans	13,000
		Tyrrell	5,000

State	Population per State	County	Population per County
North Carolina		Washington	6,000
North Carolina	167,000		
Virginia		Accomack	40,000
		Charles City	< 1,000
		Chesapeake	221,000
		Essex	8,000
		Gloucester	39,000
		Hampton City	146,000
		Isle Of Wight	34,000
		James City	60,000
		King And Queen	5,000
		King William	5,000
		Lancaster	12,000
		Mathews	10,000
		Middlesex	11,000
		New Kent	6,000
		Newport News	179,000
		Norfolk City	229,000
		Northampton	14,000
		Northumberland	13,000
		Poquoson City	12,000
		Portsmouth	102,000
		Richmond	10,000
		Southampton	< 1,000
		Suffolk City	81,000
		Surry	4,000
		Virginia Beach	436,000
		Westmoreland	9,000

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Md#1 Population Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Population Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Population per State	County	Population per County
Virginia		Williamsburg	12,000
(continued)		York	62,000
Virginia	1,760,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Population Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

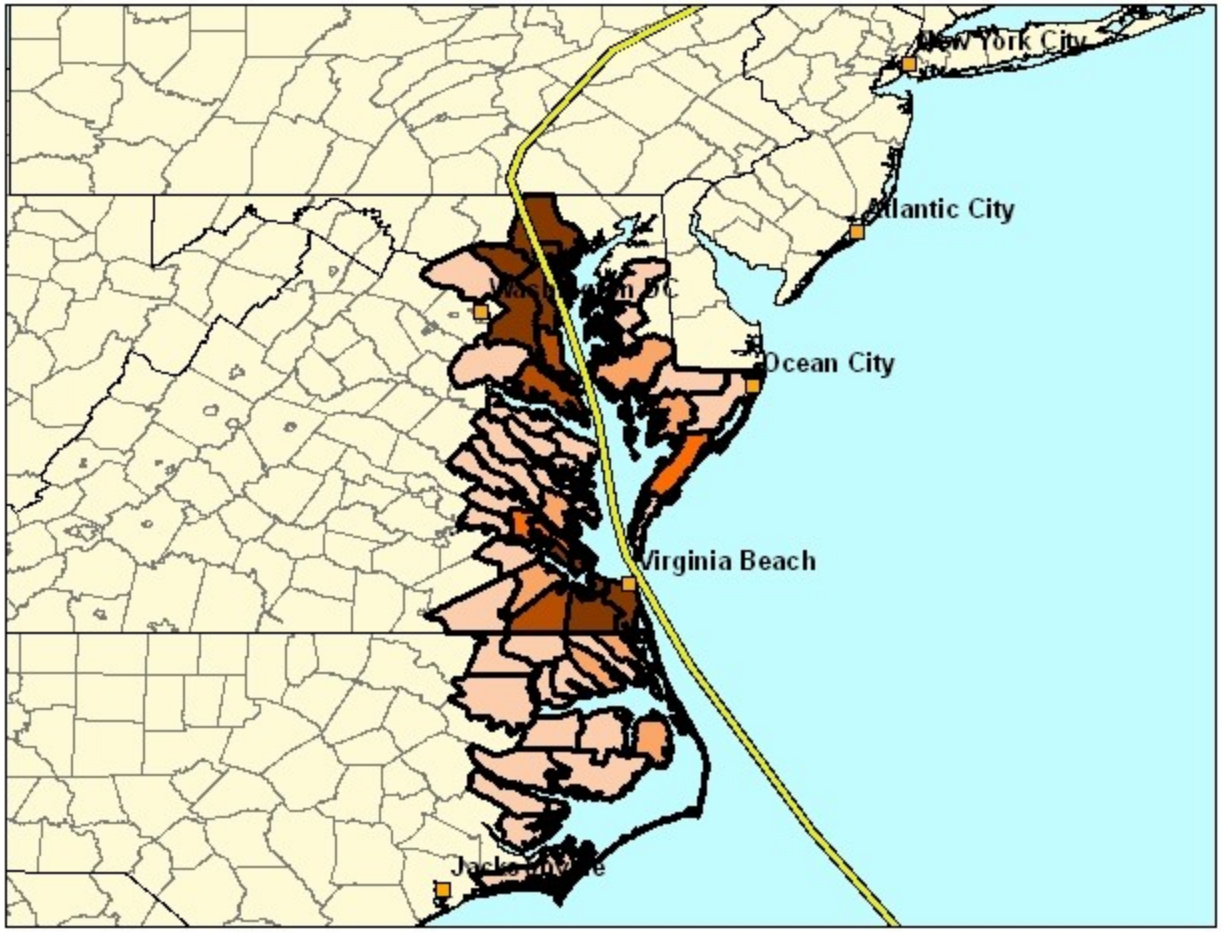
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Households Model

Landfall Plus About **12** Hours

For Official Use Only!



Post Landfall Households Model Results

Maryland - 891,000
Virginia - 658,000
North Carolina - 67,000

Model results per County on following page

This model is based on a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay. These projections are based on information from the NHC (0900 EDT 09/17/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

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Hurricane Md#1 Households Model	
Generated By: Siemsen, LRL 0930 EDT 09/17/2007	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Md#1 Households Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Households per State	County	Households per County
Maryland		Anne Arundel	187,000
		Baltimore	142,000
		Baltimore City	228,000
		Calvert	31,000
		Charles	7,000
		Dorchester	10,000
		Howard	84,000
		Montgomery	< 1,000
		Prince Georges	136,000
		Queen Annes	7,000
		Somerset	9,000
		St Marys	36,000
		Talbot	6,000
		Wicomico	3,000
		Worcester	5,000
Maryland	891,000		
North Carolina		Beaufort	< 1,000
		Bertie	< 1,000
		Camden	4,000
		Carteret	< 1,000
		Chowan	6,000
		Currituck	10,000
		Dare	15,000
		Gates	4,000
		Hertford	< 1,000
		Hyde	2,000
		Pamlico	< 1,000
		Pasquotank	15,000
		Perquimans	6,000
		Tyrrell	2,000

State	Households per State	County	Households per County
North Carolina		Washington	3,000
North Carolina	67,000		
Virginia		Accomack	16,000
		Charles City	< 1,000
		Chesapeake	78,000
		Essex	3,000
		Gloucester	15,000
		Hampton City	54,000
		Isle Of Wight	13,000
		James City	24,000
		King And Queen	2,000
		King William	2,000
		Lancaster	5,000
		Mathews	4,000
		Middlesex	5,000
		New Kent	2,000
		Newport News	69,000
		Norfolk City	85,000
		Northampton	6,000
		Northumberland	6,000
		Poquoson City	5,000
		Portsmouth	39,000
		Richmond	4,000
		Southampton	< 1,000
		Suffolk City	30,000
		Surry	2,000
		Virginia Beach	159,000
		Westmoreland	4,000

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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Hurricane Md#1 Households Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Households Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Households per State	County	Households per County
Virginia		Williamsburg	4,000
(continued)		York	22,000
Virginia	658,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

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Hurricane Md#1 Households Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Commodities Model

Landfall Plus About **12** Hours

For Official Use Only!

Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
MD – 49/97/194 Truckloads
VA – 39/77/154 Truckloads
NC – 6/11/22 Truckloads

Model results per County on following page

This model is based on a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay. These projections are based on information from the NHC ***(0900 EDT 09/17/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Md#1 Commodities Model	
Generated By: Siemsen, LRL 0930 EDT 09/17/2007	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 18

US Army Corps of Engineers

Hurricane Md#1 Commodities Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
Maryland		Anne Arundel	41
		Baltimore	29
		Baltimore City	47
		Calvert	8
		Charles	2
		Dorchester	2
		Howard	18
		Montgomery	1
		Prince Georges	30
		Queen Annes	2
		Somerset	3
		St Marys	8
		Talbot	1
		Wicomico	1
		Worcester	1
Maryland	194		
North Carolina		Beaufort	1
		Bertie	1
		Camden	1
		Carteret	1
		Chowan	2
		Currituck	2
		Dare	3
		Gates	1
		Hertford	1
		Hyde	1
		Pamlico	1
		Pasquotank	4
		Perquimans	1
		Tyrrell	1

State	Truckloads per State	County	Truckloads per County
North Carolina		Washington	1
North Carolina	22		
Virginia		Accomack	4
		Charles City	1
		Chesapeake	18
		Essex	1
		Gloucester	4
		Hampton City	12
		Isle Of Wight	3
		James City	5
		King And Queen	1
		King William	1
		Lancaster	1
		Mathews	1
		Middlesex	1
		New Kent	1
		Newport News	15
		Norfolk City	19
		Northampton	2
		Northumberland	2
		Poquoson City	1
		Portsmouth	9
		Richmond	1
		Southampton	1
		Suffolk City	7
		Surry	1
		Virginia Beach	35
		Westmoreland	1

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Commodities Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Commodities Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
Virginia		Williamsburg	1
(continued)		York	5
Virginia	154		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

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Hurricane Md#1 Commodities Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Temporary Housing Model

Landfall Plus About 12 Hours

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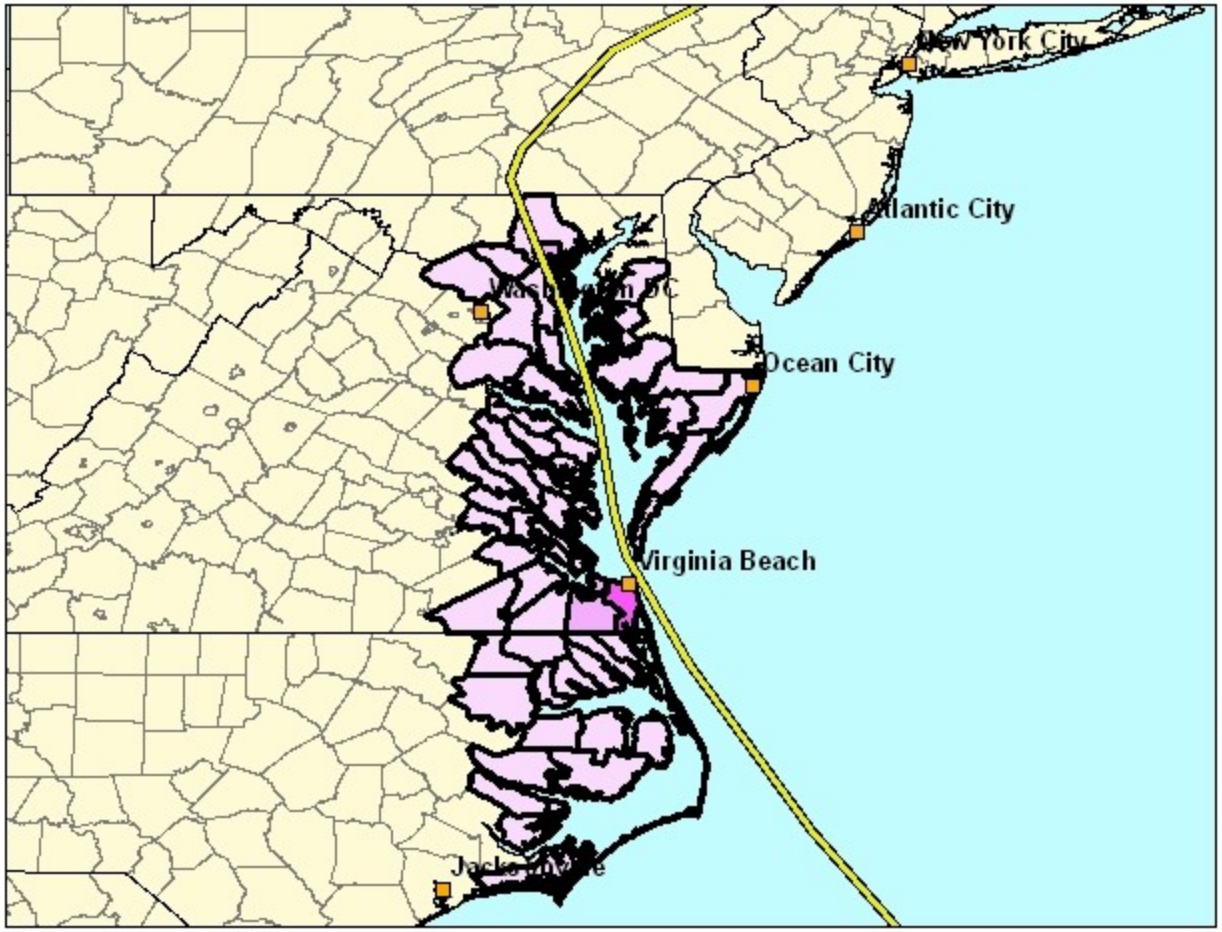

Post Landfall Temporary Housing Model Results

Virginia - 17,000
Maryland - 8,800
North Carolina - 1,200

Model results per County on following page

This model is based on a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay. These projections are based on information from the NHC (0900 EDT 09/17/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Housing Model	
Generated By: Siemsen, LRL 0930 EDT 09/17/2007	
Sources: HURREVAC LRL-DEBRIS	Page 13 of 18

US Army Corps of Engineers

Hurricane Md#1 Temporary Housing Model

Landfall Plus About 12 Hours

For Official Use Only!

State	House Units per State	County	House Units per County
Maryland		Anne Arundel	1,900
		Baltimore	1,500
		Baltimore City	2,300
		Calvert	400
		Charles	< 100
		Dorchester	< 100
		Howard	900
		Montgomery	< 100
		Prince Georges	1,400
		Queen Annes	< 100
		Somerset	< 100
		St Marys	400
		Talbot	< 100
		Wicomico	< 100
		Worcester	< 100
Maryland	8,800		
North Carolina		Beaufort	< 100
		Bertie	< 100
		Camden	< 100
		Carteret	< 100
		Chowan	< 100
		Currituck	300
		Dare	500
		Gates	< 100
		Hertford	< 100
		Hyde	< 100
		Pamlico	< 100
		Pasquotank	400
		Perquimans	< 100
		Tyrrell	< 100

State	House Units per State	County	House Units per County
North Carolina		Washington	< 100
North Carolina	1,200		
Virginia		Accomack	400
		Charles City	< 100
		Chesapeake	2,300
		Essex	< 100
		Gloucester	200
		Hampton City	1,500
		Isle Of Wight	200
		James City	300
		King And Queen	< 100
		King William	< 100
		Lancaster	200
		Mathews	200
		Middlesex	< 100
		New Kent	< 100
		Newport News	1,000
		Norfolk City	2,600
		Northampton	200
		Northumberland	200
		Poquoson City	200
		Portsmouth	1,200
		Richmond	< 100
		Southampton	< 100
		Suffolk City	400
		Surry	< 100
		Virginia Beach	5,500
		Westmoreland	< 100

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

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or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Housing Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Temporary Housing Model

Landfall Plus About 12 Hours

For Official Use Only!

State	House Units per State	County	House Units per County
Virginia		Williamsburg	< 100
(continued)		York	400
Virginia	17,000		

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

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Hurricane Md#1 Housing Model

Generated By:
Siemsen, LRL 0930 EDT 09/17/2007

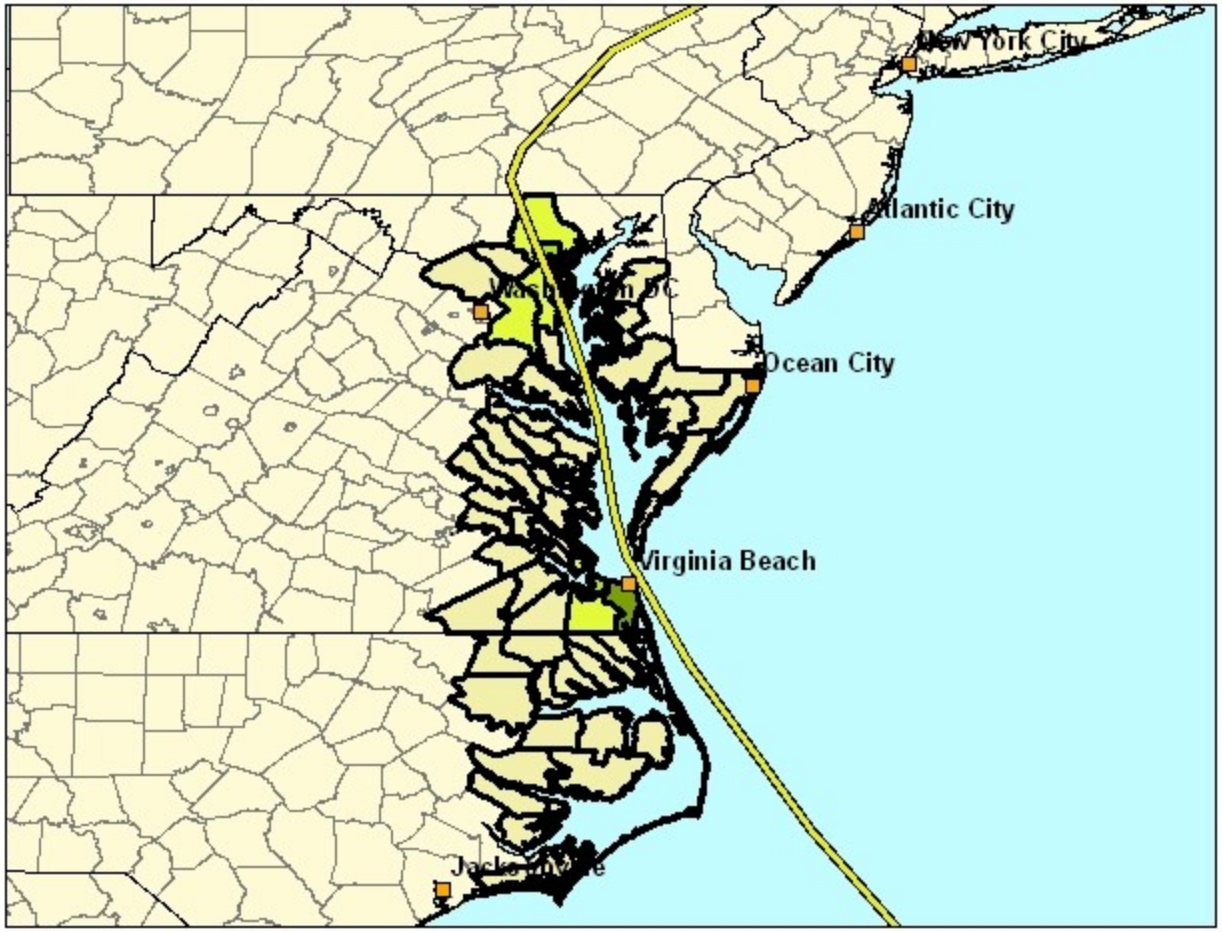
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Md#1 Temporary Roofing Model

Landfall Plus About 12 Hours

For Official Use Only!



Post Landfall Temporary Roofing Model Results

Virginia - 28,200
Maryland - 18,300
North Carolina - 2,500

Model results per County on following page

This model is based on a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Baltimore, MD up Chesapeake Bay. These projections are based on information from the NHC (0900 EDT 09/17/2007) forecast. Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 8% in CAT 3.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Md#1 Roofing Model	
Generated By: Siemsen, LRL 0930 EDT 09/17/2007	
Sources: HURREVAC LRL-DEBRIS	Page 16 of 18

US Army Corps of Engineers

Hurricane Md#1 Temporary Roofing Model

Landfall Plus About 12 Hours

For Official Use Only!

State	House Units per State	County	House Units per County
Maryland		Anne Arundel	3,800
		Baltimore	2,900
		Baltimore City	4,600
		Calvert	700
		Charles	200
		Dorchester	200
		Howard	1,700
		Montgomery	< 100
		Prince Georges	2,800
		Queen Annes	200
		Somerset	200
		St Marys	800
		Talbot	200
		Wicomico	< 100
		Worcester	< 100
Maryland	18,300		
North Carolina		Beaufort	< 100
		Bertie	< 100
		Camden	200
		Carteret	< 100
		Chowan	200
		Currituck	500
		Dare	800
		Gates	< 100
		Hertford	< 100
		Hyde	< 100
		Pamlico	< 100
		Pasquotank	600
		Perquimans	200
		Tyrrell	< 100

State	House Units per State	County	House Units per County
North Carolina		Washington	< 100
North Carolina	2,500		
Virginia		Accomack	600
		Charles City	< 100
		Chesapeake	3,800
		Essex	< 100
		Gloucester	400
		Hampton City	2,600
		Isle Of Wight	300
		James City	500
		King And Queen	< 100
		King William	< 100
		Lancaster	300
		Mathews	200
		Middlesex	200
		New Kent	< 100
		Newport News	1,700
		Norfolk City	4,300
		Northampton	300
		Northumberland	300
		Poquoson City	300
		Portsmouth	2,000
		Richmond	< 100
		Southampton	< 100
		Suffolk City	700
		Surry	< 100
		Virginia Beach	9,100
		Westmoreland	< 100

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2 and 8% in CAT 3.

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Hurricane Md#1 Temporary Roofing Model

Landfall Plus About 12 Hours

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State	House Units per State	County	House Units per County
Virginia		Williamsburg	< 100
(continued)		York	600
Virginia	28,200		

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